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ABSTRACT

Science projects are a great way for students to learn more about science as they search for the answers to specific problems. This book offers guidance and provides ideas for students as they plan experiments, find and record information related to the problem, and organize data to find answers to the problem. The 20 topics in this book suggest many possible problems to solve. Each topic has one "cookbook" experiment--follow the recipe and the result is guaranteed. Each topic is presented as the problem experiment followed by materials, procedure, expected results, and an explanation of those results. Each sample experiment is followed by a section called "Let's Explore" which provides additional questions about the problem presented in the experiment. New results are achieved by making small changes to some part of the sample experiment. The section "Showtime!" helps students develop their own ideas to design a science fair presentation from the sample experiment. Tips for further research are given in the "Check it Out!" section at the end of each topic. Sample demonstrations include determining the hardness of a mineral, calculating the specific gravity of a mineral, identifying carbonates, and exploring stalactites and stalagmites. Contains a glossary and resource lists. (PVD)

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